## Java Threads

- In Java, a thread is an object of type Thread
- Creating a thread
  - Write a class that inherits from Thread
  - Implement the Runnable interface and pass to Thread's constructor
    - Runnable defines a single method void run()

## **Thread Operations**

- Starting a thread t
  - t.start() spawns a new thread of execution to concurrently execute run()

- Suspend the current thread for n milliseconds
  - Thread.sleep(n);

## Single Java Thread

```
public class Threads {
public static void main(String[] args) {
   // Anonymous class definition
   Thread myThread = new Thread(new Runnable() {
     // run() is the thread's "main" method and called by start()
     Coverride
     public void run() {
       try {
         for (int i = 0; i < 5; i++) {
           System.out.println("Hello " + i);
           Thread.sleep(1000); // Wait for 1 second
       } catch (InterruptedException e) {
         // Thrown by Thread.sleep when it's interrupted
   });
   // This starts the thread
   myThread.start();
   System.out.println("New thread runs in parallel!");
```